

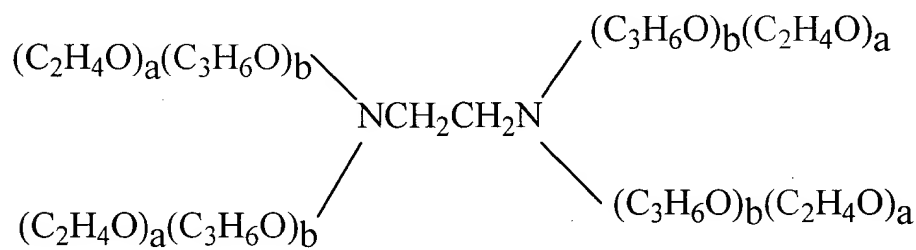
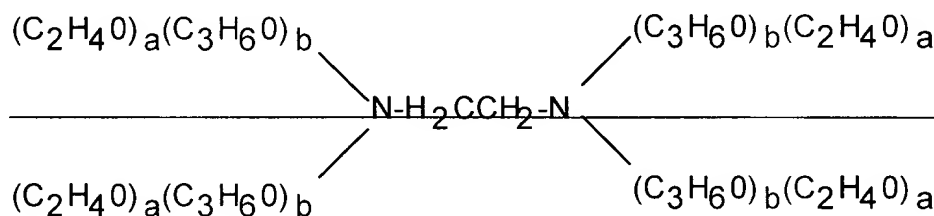
Amendments to the Claims

In accordance with revised 37 C.F.R. § 1.121, please amend the claims as follows, with deletions shown by strikethrough and additions shown by underlining:

1. (Currently Amended) A ~~therapeutic composition for treating a human or animal~~ comprising,

a ~~compound capable of altering nucleic acid function admixed with a block~~ one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the ~~block~~ octablock copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the ~~compound~~ octablock copolymer by weight.

2. (Currently Amended) The composition of Claim 1, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

3. (Currently Amended) The composition of Claim 1, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

4. (Currently Amended) The composition of Claim 1, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

5. (Currently Amended) The composition of Claim 1, wherein the ~~compound capable of altering nucleic acid sequence function is~~ the one or more molecules are selected from genes isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, or antisense oligonucleotides, triplex DNA compounds, or ribozymes.

6. (Currently Amended) The composition of Claim 1, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of ~~an~~ a low molecular weight alcohol.

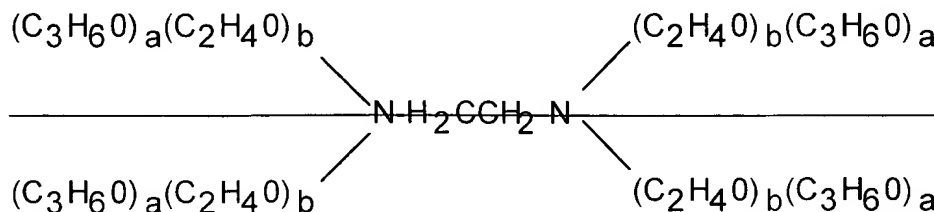
7. (Currently Amended) The composition of Claim 6, wherein the surfactant is ~~Tween 80~~ polyoxyethylene (20) sorbitan monooleate and the alcohol is ethanol.

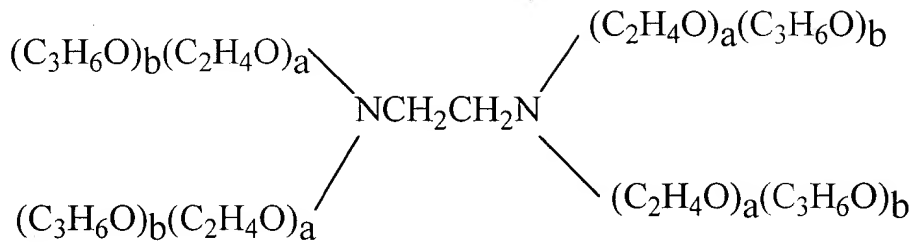
8. (Currently Amended) The composition of Claim 1, further comprising an expression vector, ~~wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence~~ sequences.

9. (Currently Amended) A ~~therapeutic composition for treating a human or animal~~ comprising,

~~a compound capable of altering nucleic acid function admixed with a block~~ one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the block octablock copolymer has the following formula:





wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the ~~compound~~ octablock copolymer by weight.

10. (Currently Amended) The composition of Claim 9, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

11. (Currently Amended) The composition of Claim 9, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

12. (Currently Amended) The composition of Claim 9, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

13. (Currently Amended) The composition of Claim 9, wherein the one or more molecules ~~are compound capable of altering nucleic acid sequence function~~ is selected from genes isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, or antisense oligonucleotides, triplex DNA compounds, or ribozymes.

14. (Currently Amended) The composition of Claim 9, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of ~~an~~ a low molecular weight alcohol.

15. (Currently Amended) The composition of Claim 14, wherein the surfactant is ~~Tween 80~~ polyoxyethylene (20) sorbitan monooleate and the alcohol is ethanol.

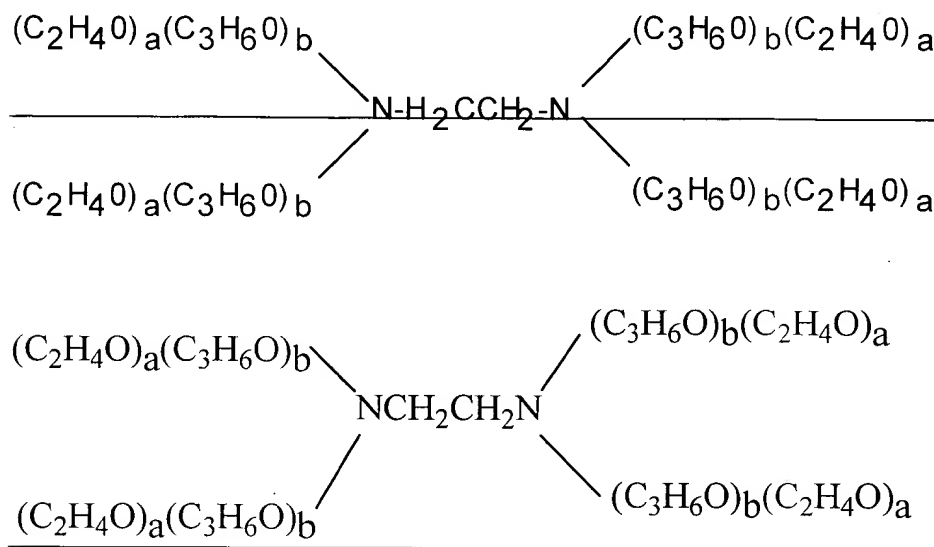
16. (Currently Amended) The composition of Claim 9, further comprising an expression vector, ~~wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence~~ sequences.

17. (Currently Amended) A ~~therapeutic composition for treating a human or animal~~ comprising,

~~a compound capable of altering nucleic acid function admixed with a block~~ one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene

products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the ~~block~~ octablock copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 80% and about 95% of the ~~compound~~ octablock copolymer by weight.

18. (Currently Amended) The composition of Claim 17, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

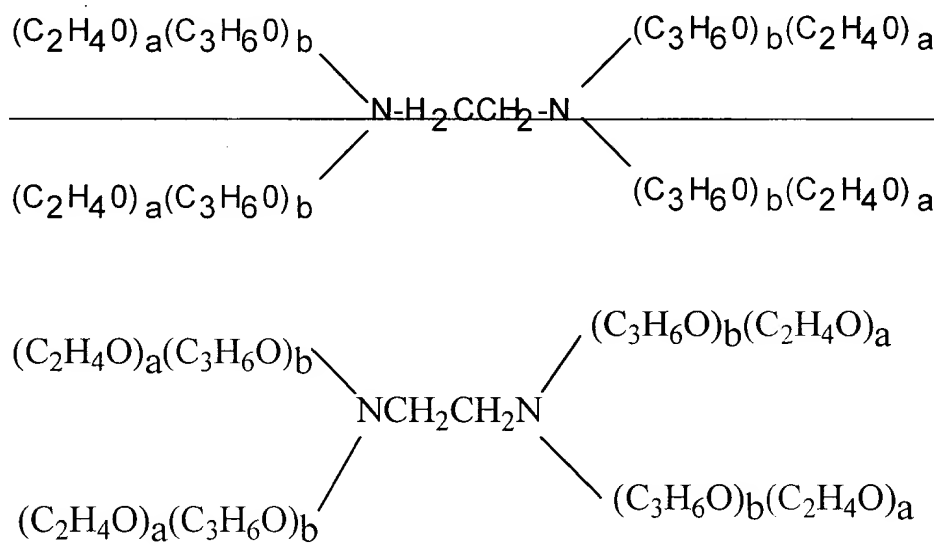
a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

19. (Currently Amended) A method of delivering a ~~compound capable of altering nucleic acid sequence function~~ molecule to a ~~human or an~~ animal comprising,

the step of administering to a ~~human or the~~ animal a composition comprising a ~~compound capable of altering nucleic acid sequence function~~ admixed with a block one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the ~~block~~ octablock copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the ~~compound~~ octablock copolymer by weight.

20. (Currently Amended) The ~~composition~~ method of Claim 19, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

21. (Currently Amended) The ~~composition~~ method of Claim 19, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

22. (Currently Amended) The ~~composition~~ method of Claim 19, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

23. (Currently Amended) The method of Claim 19, wherein the one or more molecules ~~are compound capable of altering nucleic acid sequence function~~ is selected from genes isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, or antisense oligonucleotides, triplex DNA compounds, or ribozymes.

24. (Currently Amended) The method of Claim 19, wherein the composition further ~~comprising~~ comprises approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of an a low molecular weight alcohol.

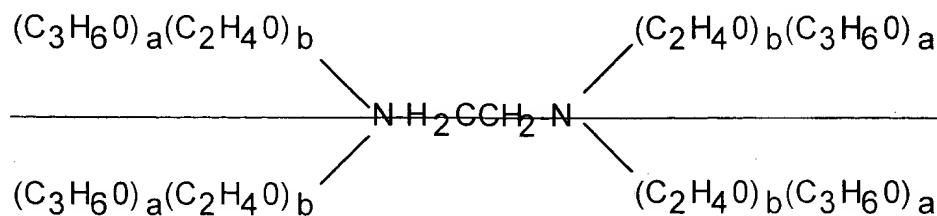
25. (Currently Amended) The method of Claim 24, wherein the surfactant is Tween-80 polyoxyethylene (20) sorbitan monooleate and the alcohol is ethanol.

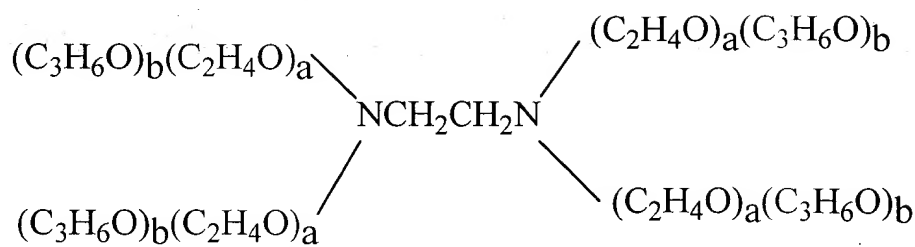
26. (Currently Amended) The method of Claim 19, wherein the composition further ~~comprising~~ comprises an expression vector, ~~wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence sequences.~~

27. (Currently Amended) A method of delivering a ~~compound capable of altering nucleic acid sequence function~~ molecule to ~~a human or an~~ animal comprising,

the step of administering to ~~a human or the~~ animal a composition comprising a ~~compound capable of altering nucleic acid sequence function admixed with a block~~ one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the ~~block~~ octablock copolymer has the following formula:





wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the ~~compound~~ octablock copolymer by weight.

28. (Currently Amended) The ~~composition~~ method of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

29. (Currently Amended) The ~~composition~~ method of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

30. (Currently Amended) The ~~composition~~ method of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

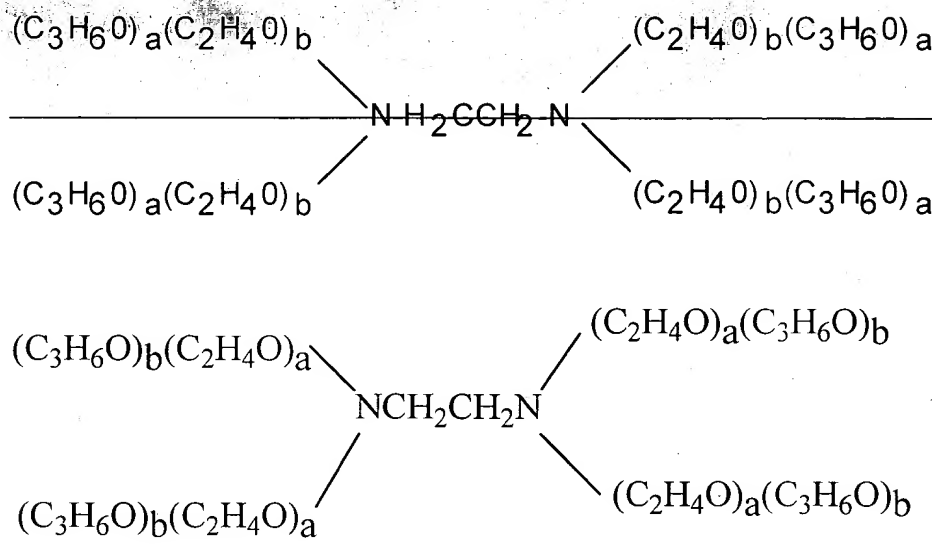
31. (Currently Amended) The method of Claim 27, wherein the one or more molecules ~~are compound capable of altering nucleic acid sequence function~~ is selected from genes isolated or amplified nucleic sequences acid encoding gene products, oligonucleotides, or antisense oligonucleotides, triplex DNA compounds, or ribozymes.

32. (Currently Amended) The method of Claim 27, wherein the composition further ~~comprising~~ comprises approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of ~~an~~ a low molecular weight alcohol.

33. (Currently Amended) A method of delivering a molecule ~~compound capable of altering nucleic acid sequence function~~ to ~~a human or an~~ an animal comprising,

the step of administering to ~~a human or the~~ the animal a ~~composition comprising a compound capable of altering nucleic acid sequence function admixed with a block~~ one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the block octablock copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 80% and about 95% of the ~~compound~~ octablock copolymer by weight.

34. (Currently Amended) The ~~composition~~ method of Claim 33, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

35. (Currently Amended) The ~~composition~~ method of Claim 33, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

36. (Currently Amended) The ~~composition~~ method of Claim 33, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the ~~compound~~ octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the ~~compound~~ octablock copolymer by weight.

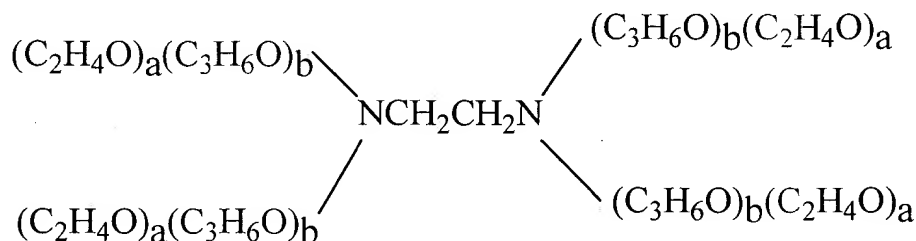
33 37. (Currently Amended) The method of Claim 32, wherein the surfactant is ~~Tween-80 polyoxyethylene (20) sorbitan monooleate~~ and the alcohol is ethanol.

34 38. (Currently Amended) The method of Claim 27, wherein the composition further ~~comprising~~ comprises an expression vector, ~~wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence~~ sequences.

39. (New) The composition of Claim 17, wherein the polyoxypropylene portion of the total molecular weight of the octablock copolymer is greater than 90% and less than about 95%.

40. (New) The method of Claim 33, wherein the polyoxypropylene portion of the total molecular weight of the octablock copolymer is greater than 90% and less than about 95%.

41. (New) A composition comprising,
 one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and
 an octablock copolymer, wherein the octablock copolymer has the following formula:



wherein:

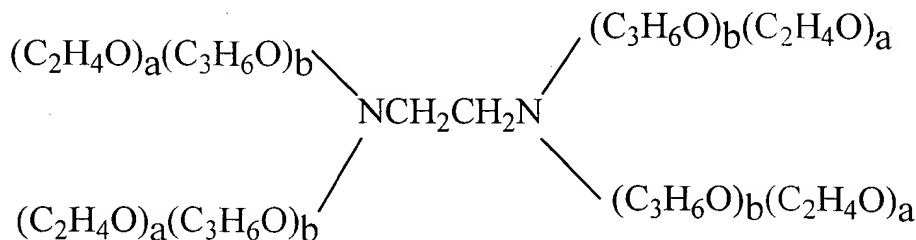
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer is greater than 90% and less than about 95% of the octablock copolymer.

42. (New) A method of delivering a molecule to an animal comprising,
 the step of administering to the animal a composition comprising one or more molecules selected from isolated or amplified nucleic acid sequences encoding gene products, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, ribozymes, or mixtures thereof; and

an octablock copolymer, wherein the octablock copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the octablock copolymer by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer is greater than 90% and less than about 95% of the octablock copolymer.

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